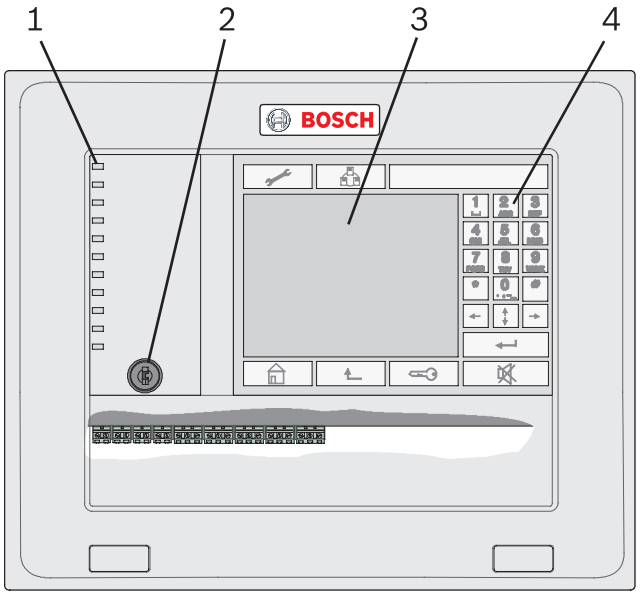
FMR-5000 Remote Keypad

BOSCH
Invented for life

- Identical user interface like Panel Controller
- Convenient solution for remote operation of fire panel
- Up to 32 Panel Controllers, Remote Keypads and OPC server in a network of FPA-5000 fire panels
- Surface and flush mounting possible
- 14.5 cm (5.7") touch-screen with 22 fixed keys for the standard entries

The FMR-5000 Remote Keypad is a convenient solution for the remote operation of the FPA-1200 Fire Panel, the FPA-5000 Modular Fire Panel or a complete network. The design of the user interface is identical with that of the FPA-1200 and FPA-5000 Panel Controllers and therefore enables an intuitive and quick operation. In a network of FPA-5000 fire panels, up to 32 Panel Controllers, Remote Keypads and OPC server can be connected.
The FPA-1200 Fire Panel can be networked with up to three FMR-5000 Remote Keypads.

System Overview



Pos.	Description
1	Status LEDs

2	Key switch
3	LCD touch display
4	Membrane keys

Functions

Networking
Up to 32 Panel Controllers, Remote Keypads, and OPC server can be connected to a single FPA-5000 network. Depending on usage, various Panel Controllers and Remote Keypads can be grouped, defined as network or local node. Within a group, conditions of panels can be shown which also belong to the defined group. Independent of groups, via network nodes conditions of all panels can be displayed and be edited. Local nodes display conditions of the associated panel.
For networking via CAN1 and CAN2 interfaces the following three connection topologies are possible:
- Non-redundant bus via CAN1
- Redundant bus via busses CAN1 and CAN2
- Redundant loop via CAN1 and CAN2

Alarm indication
The indication element is a high-resolution LCD touch-screen (320 x 240 px) with automatically activated backlight. 11 LEDs provide continuous information about the operating status of the control panel and / or system. Additional LED annunciator modules, each containing 16 detection points, can be used to visually display alarms or faults.

Operation / processing of messages
The operation of the Panel Controller and the processing of all messages is done on the ergonomically-designed control panel using the integrated LCD touch-screen. To that end, there are permanently located keys on the right, bottom, and upper edge of the display as well as variably located virtual keys in the touch-screen area.
There is a key switch underneath the status LEDs; the key switch has two programmable switch positions, e.g.:
- Operation released / not released
- For switching back and forth between day and night operation

Interfaces
The USB interface enables the configuration of the connected fire panel or the complete network.

Saving and printing messages
Messages and events are saved internally and can be viewed on the display at any time. A log printer for printing incoming messages can be connected.

Language variants
The language of the menu can be selected arbitrarily.

Certifications and Approvals

Region	Certification	
Poland	CNBOP	2663/2008 FMR-5000
	CNBOP	0401/2008 FMR-5000
Germany	VdS	G 208161 FMR-5000

Technical Specifications

Elektrical

Operating voltage	11 V DC to 30 V DC
Max. current consumption	
• Standby	130 mA @ 24 V DC
• Alarm	225 mA @ 24 V DC
Max. resistance	18 Ω
Max. cable length when networking	1000 m depending on configuration, topology and cable type

Mechanical

Display element	14.5 cm (5.7") LCD display
Operating element	Touch screen
Fixed operating elements	22 keys
Fixed display elements	11 LEDs
Interfaces	CAN1, CAN2, Ethernet, 100BaseTX, USB, RS232
Dimensions (H x W x T)	280 mm x 340 mm x 87,2 mm
LCD display (H x W)	86 mm x 116 mm
Weight	ca. 3 kg

Environmental

Permissible operating temperature	-5 °C to 50 °C
Permissible storage temperature	-20 °C to 70 °C